Inside-Out Well http://id.inel.gov/tto/iowell.html

Inside-Out Well

Description

The INEEL has developed a new technology that accommodates simultaneous gas sampling and groundwater sampling in the same borehole. By attaching the gas sampling tubing ang ports on the exterior of the casing, the Inside-Out Well eliminates costly problems associated with conventional designs for combination groundwater and gas sampling wells.

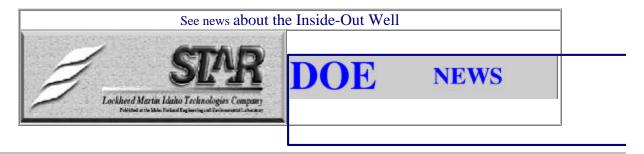
Applications

- The Inside-Out Well can be used simultaneously for monitoring and remediation. The technology is currently being used to monitor volatile organic compounds. It can also be used for <u>remediation applications</u> including air extraction, air injection, groundwater pumping and injection of air below the water table (sparging).
- This technology is simple to construct, install, and operate.
- The well significantly lowers overall costs compared to installing separate boreholes for groundwater and vapor sampling.

Development Status

- The INEEL has patented the well design.
- Design feasibility has been proven at a low-level radioactive and hazardous waste storage facility at the INEEL.
- Licensees are being sought to commercialize the technology.

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